Annual Indexes

Volume 12—October 1982 to July 1983

1. Subject Index

A

Abstracts 64, 125, 204, 282
Airport lighting system, A study of the environmental impact of an intense flashing 17
Alumina arc tube wall temperature of HPS lamps, The 275
Amalgams at HPS lamp operating temperatures, The vapor pressures of sodium and mercury over sodium 66
American National Standard Practice for Roadway Lighting, Proposed . 146
Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a function of reference luminance .. 91
Analysis programs, A daylighting computation procedure for use in DOE-2 and other dynamic building energy 78
Appraisal of incandescent lamp filling gas purity 34

B

Ballast for instrument panel lighting, A dimmable (1000: 1 range) fluorescent 86
Ballast simulations, Metal halide lamp load modeling for computer 70
Brightness matching of heterochromatic stimuli, New results on the . 218
Brushes on visual performance, Effects of Haidinger's 197
Building energy analysis programs, A daylighting computation procedure for use in DOE-2 and other dynamic 78

C

Calculating coefficients of utilization, wall exitance coefficients, and ceiling cavity exitance coefficients, Recommended procedure for 3
Calculations for non-rectangular interior spaces with shading devices, Daylighting 225
Calculations, On the simplification of radiative transfer 12
CIE 19-2, Evaluation of roadway lighting using the visual model of . 251
Computation procedure for use in DOE-2 and other dynamic building energy analysis programs, A daylighting 78
Computer ballast simulations, Metal halide lamp load modeling for ... 70

D

Data in terms of quantitative method for prediction of visual performance potential as a function of reference luminance, Analyses of twenty sets of visual performance 91
Daylighting calculations for non-rectangular interior spaces with shading devices 225
Daylighting computation procedure for use in DOE-2 and other dynamic building energy analysis programs, A 78
Determination of total external illuminance on a sloped surface from sunlight and skylight 260
Dimmable (1000: 1 range) fluorescent ballast for instrument panel lighting, A 260
DOE-2 and other dynamic building energy analysis programs, A daylighting computation procedure for use in 78

E

Effects of Haidinger's brushes on visual performance 197
Electrical and photometric measurements of low pressure sodium lamps, IES approved method for the 210
Energy analysis programs, A daylighting computation procedure for use in DOE-2 and other dynamic building 78
Environmental impact of an intense flashing airport lighting system, A study of the 17
Evaluation of roadway lighting using the visual model of CIE 19-2 251
External illuminance on a sloped surface from sunlight and skylight, Determination of total 260

F

Flashing airport lighting system, A study of environmental impact of an intense 17
Fluoresent ballast for instrument panel lighting, A dimmable (1000: 1 range) 86
Fluorescent photometry, On 218
Function of reference luminance, Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a 91

G

Gas purity, Appraisal of incandescent lamp filling 34

H

Haidinger's brushes on visual performance, Effects of 197
Halide lamp load modeling for computer ballast simulations, Metal.. 70
Heterochromatic stimuli, New results on the brightness matching of ... 268
HPS lamp operating temperatures, The vapor pressures of sodium and mercury over sodium amalgams at 66
HPS lamps, The alumina arc tube wall temperature of 275

I

IERI Research Reports
A comprehensive quantitative method for prediction of visual performance potential as a function of reference luminance ... 40
Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a function of a reference luminance 91
Performance of a reading test under different levels of illumination . 29
IES approved method for the electrical and photometric measuements of low pressure sodium lamps 210
IES approved method of life testing of low pressure sodium lamps 215
IES guide to spectroradiometric measurements 136
Illuminance, and horizontal solar radiation, Measurements of sky luminance, sky 130
Illuminance on a sloped surface from sunlight and skylight, Determination of total external 260
Illumination, Performance of a reading test under different levels of .. 29
Incandescent lamp filling gas purity, Appraisal of 34
Instrument panel lighting, A dimmable (1000: 1 range) fluorescent ballast for 86

L

Lamp filling gas purity, Appraisal of incandescent 34
Lamps, IES approved method for the electrical and photometric measurements of low pressure sodium 210
Lamps, IES approved method of life testing of low pressure sodium ... 215
Lamp load modeling for computer ballast simulations, Metal halide . 70
Lamp operating temperatures, The vapor pressures of sodium and mercury over sodium amalgams at HPS 66
Levels of illumination, Performance of a reading test under different ... 29
Life testing of low pressure sodium lamps, IES approved method of . 215
Lighting, A dimmable (1000: 1 range) fluorescent ballast for instrument panel 86
Lighting, Proposed American National Standard Practice for Roadway 146
Lighting, Recommended practice for roadway sign 141
Lighting system, A study of the environmental impact of an intense flashing airport 17
Lighting using the visual model of CIE 19-2, Evaluation of roadway 251
Low pressure sodium lamps, IES approved method for the electrical and

photometric measurements of ... 210
Low pressure sodium lamps, IES approved method of life testing of .. 215
Luminance, A comprehensive quantitative method for prediction of visual performance potential as a function of reference 40
Luminance, Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a function of reference 91
Luminance, sky illuminance, and horizontal solar radiation, Measurements of sky 130

M

Matching of heterochromatic stimuli, New results on the brightness ... 268
Measurements, IES guide to spectroradiometric 136
Measurements of low pressure sodium lamps, IES approved method for the electrical and photometric ... 210
Measurements of sky luminance, sky illuminance, and horizontal solar radiation 130
Mercury over sodium amalgams at HPS lamp operating temperatures, The vapor pressures of sodium and 66
Metal halide lamp load modeling for computer ballast simulations 70
Method for prediction of visual performance potential as a function of reference luminance, Analyses of twenty sets of visual performance data in terms of a quantitative ... 91
Method for the electrical and photometric measurements of low pressure sodium lamps, IES approved. 210
Method of life testing of low pressure sodium lamps, IES approved 215
Modeling for computer ballast simulations, Metal halide lamp load .. 70

N

National Standard Practice for Roadway Lighting, Proposed American 146
Non-rectangular interior spaces with shading devices, Daylighting calculations for 225

O

On the simplification of radiative transfer calculations 12
On fluorescent photometry 218

P

Performance, A new look at models of visual 242
Performance data in terms of a quantitative method for prediction of visual performance potential as a function of reference luminance, Analyses of twenty sets of visual .. 91
Performance, Effects of Haidinger's brushes on visual 197
Performance of a reading test under different levels of illumination ... 29
Performance potential as a function of reference luminance, A comprehensive quantitative method for prediction of visual 40
Photometric measurements of low pressure sodium lamps, IES approved method for the electrical and Photometry, On fluorescent 215
Practice for Roadway Lighting, Proposed American National Standard 40
Practice for roadway sign lighting, Recommended 91
Prediction of visual performance potential as a function of reference luminance, A comprehensive quantitative method for 91
Pressure sodium lamps, IES approved method for the electrical and photometric measurements of low ... 130
Pressure sodium lamps, IES approved method of life testing of low 210
Pressures of sodium and mercury over sodium amalgams at HPS lamp operating temperatures, The vapor 66
Procedure for use in DOE-2 and other dynamic building energy analysis programs, A daylighting computation 268
Programs, A daylighting computation procedure for use of DOE-2 and other dynamic building energy analysis 210
Proposed American National Standard Practice for Roadway Lighting 130

Q

Quantitative method for prediction of visual performance potential as a function of reference luminance, A comprehensive 91
Quantitative method for prediction of visual performance potential as a function of reference luminance, Analyses of twenty sets of visual performance data in terms of a .. 210

R

Radiation, Measurements of sky luminance, sky illuminance, and horizontal solar 130
Radiative transfer calculations, On the simplification of 12
Reading test under different levels of illumination, Performance of a .. 146
Recommended practice for roadway sign lighting 225
Recommended procedure for calculating coefficients of utilization, wall exitance coefficients, and ceiling cavity exitance coefficients 3
Reference luminance, Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a function of 91
Results on the brightness matching of heterochromatic stimuli, New ... 268
Roadway Lighting, Proposed American National Standard Practice for 146
Roadway lighting using the visual model of CIE 19–2, Evaluation of . 251
Roadway sign lighting, Recommended practice for 141

S

Shading devices, Daylighting calculations for non-rectangular interior spaces with 226
Sign lighting, Recommended practice for roadway 141
Simulations, Metal halide lamp load modeling for computer ballast ... 70
Skylight, Determination of total external illuminance on a sloped surface from sunlight and 260
Sloped surface from sunlight and skylight, Determination of total external illuminance on a 260
Sodium lamps, IES approved method for the electrical and photometric measurements of low pressure ... 210
Sodium lamps, IES approved method of life testing of low pressure 215
Solar radiation, Measurements of sky luminance, sky illuminance, and horizontal 130
Spaces with shading devices, Daylighting calculations for non-rectangular interior 226
Spectroradiometric measurements, IES guide to 136
Standard Practice for Roadway Lighting, Proposed American National 146
Stimuli, New results on the brightness matching of heterochromatic 218
Sunlight and skylight, Determination of total external illuminance on a sloped surface from 226
Surface from sunlight and skylight, Determination of total external illuminance on a sloped 226

T

Technical Committee Report
IES approved method for the electrical and photometric measurements of low pressure sodium lamps 210
IES approved method of life testing of low pressure sodium lamps . 215
IES guide to spectroradiometric measurements 136
Proposed American National Standard Practice for Roadway Lighting 146
Recommended practice for roadway sign lighting 141
Recommended procedure for calculating coefficients of utilization, wall exitance coefficients, and ceiling cavity exitance coefficients 3
Temperatures, The vapor pressures of sodium and mercury over sodium amalgams at HPS lamp operating 66
Testing of low pressure sodium lamps, IES approved method of life 215
Test under different levels of illumination, reading performance of a reading 29

U

Utilization, wall exitance coefficients, and ceiling cavity exitance coefficients, Recommended procedure for calculating coefficients of 3

V

Vapor pressures of sodium and mercury over sodium amalgams at HPS lamp operating temperatures, The 66
Visual model of CIE 19-2, Evaluation of Roadway lighting using the ... 251
Visual performance, A new look at models of 241
Visual performance data in terms of a quantitative method for prediction of visual performance potential as

a function of reference luminance, Analyses of twenty sets of 91
Visual performance, Effects of Haidinger's brushes on 197
Visual performance potential as a function of reference luminance, A comprehensive quantitative method for prediction of 40
Wall temperature of HPS lamps, The alumina arc tube 275

2. Author Index

A

Alman, D. H.—New results on the brightness matching of heterochromatic stimuli 268
Andrew, K. F.—The vapor pressures of sodium and mercury over sodium amalgams at HPS lamps operating temperatures 66

B

Barbour, J.—New results on the brightness matching of heterochromatic stimuli 268
Berman, S.—A new look at model of visual performance 241
Blackwell, H. R.—A comprehensive quantitative method for prediction of visual performance potential as a function of reference luminance.. 40
Blackwell, H. R.—Analyses of twenty sets of visual performance data in terms of a quantitative method for prediction of visual performance potential as a function of reference luminance 91
Breton, M. F.—New results on the brightness matching of heterochromatic stimuli 268

C

Calculation Procedures Committee—Recommended procedure for calculating coefficients of utilization, wall exitance coefficients, and ceiling cavity exitance coefficients 3
Clear, R.—A new look at models of visual performance 241

D

DiLaura, D. L.—On the simplification of radiative transfer calculations.. 12

E

Eppig, H. J.—Appraisal of incandescent lamp filling gas purity 34

F

Feldman, J. M.—A study of the environmental impact of an intense flashing airport lighting system .. 17

G

Gillette, G.—A daylighting computation procedure for use in DOE-2 and other dynamic building energy analysis programs 78
Gillette, G.—Measurements of sky luminance, sky illuminance, and horizontal solar radiation 130

H

Hirayama, C.—The vapor pressures of sodium and mercury over sodium amalgams at HPS lamp operating temperatures 66

J

Jorgensen, J. A.—A dimmable (1000: 1 range) fluorescent ballast for instrument panel lighting 86

K

Keck, M. E.—Evaluation of roadway lighting using the visual model of CIE 19-2 251
Kleinosky, R. L.—The vapor pressures of sodium and mercury over sodium amalgams at HPS lamp operating temperatures 66
Kusuda, T.—A daylighting computation procedure for use in DOE-2 and other dynamic building energy analysis programs 78

L

Lauritzen, P. O.—A dimmable (1000: 1 range) fluorescent ballast for instrument panel lighting 86
Levin, Robert E.—On fluorescent photometry 218
Loch, C. H.—Evaluation of roadway lighting using the visual model of CIE 19-2 251

M

Meyer, S. D.—A dimmable (1000: 1 range) fluorescent ballast for instrument panel lighting 86
Modest, M. F.—Daylighting calculations for non-rectangular interior spaces with shading devices 226
Murdoch, J.—Determination of total external illuminance on a sloped surface from sunlight and skylight 260

N

Nettleton, J.—Determination of total external illuminance on a sloped surface from sunlight and skylight 260

O

Osborn, J. G.—A dimmable (1000: 1 range) fluorescent ballast for instrument panel lighting 86

P

Partlow, W. D.—Metal halide lamp load modeling for computer ballast simulations 70

R

Rea, M. S.—Effects of Haidinger's brushes on visual performance ... 197
Rea, M. S.—Performance of a reading test under different levels of illumination 29

S

Shelby, B. L.—Evaluation of roadway lighting using the visual model of CIE 19-2 251
Skavenski, A. A.—A study of the environmental impact of an intense flashing airport lighting system .. 17
Smith, S. W.—Performance of a reading trest under different levels of illumination 29
Spreadbury, R. J.—Metal halide lamp load modeling for computer ballast simulations 70

T

Treado, S.—Measurements of sky luminance, sky illuminance, and horizontal solar radiation 130

Z

Zollweg, R. J.—The alumina arc tube wall temperature of HPS lamps .. 275